

15 August, 2003

Bruce Lewis Environmental Resources Management 2525 Natomas Park Drive, Suite 350 Sacramento, CA 95833

RE: Aerojet RI/FS Work Order: P307532

Enclosed are the results of analyses for samples received by the laboratory on 07/28/03 17:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Angelee Cari For Mark Shipman

Angelee Care

Project Manager

CA ELAP Certificate #2374



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
35D-SB26-6	P307532-01	Soil	07/25/03 16:06	07/28/03 17:25
35D-SB26-11	P307532-02	Soil	07/25/03 16:19	07/28/03 17:25
35D-SB26-15E	P307532-03	Water	07/25/03 16:31	07/28/03 17:25
35D-SB26-15	P307532-04	Soil	07/25/03 16:49	07/28/03 17:25
35D-SB26-30	P307532-06	Soil	07/28/03 10:44	07/28/03 17:25
35D-SB26-35	P307532-07	Soil	07/28/03 11:05	07/28/03 17:25
35D-SB26-35D	P307532-08	Soil	07/28/03 11:05	07/28/03 17:25
35D-SB26-40	P307532-09	Soil	07/28/03 11:39	07/28/03 17:25
35D-SB26-45	P307532-10	Soil	07/28/03 12:02	07/28/03 17:25
35D-SB26-2.5	P307532-11	Soil	07/28/03 15:48	07/28/03 17:25
35D-SB26-20E	P307532-12	Water	07/28/03 15:54	07/28/03 17:25



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Tentatively Identified Compounds by GC/MS Sequoia Analytical - Petaluma

	I	Reporting				•			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-6 (P307532-01) Soil	Sampled: 07/25/03 16:06	Receive	d: 07/28/	03 17:25					
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
35D-SB26-11 (P307532-02) Soil	Sampled: 07/25/03 16:19	Receive	ed: 07/28	3/03 17:25					
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
35D-SB26-15E (P307532-03) Wa	ater Sampled: 07/25/03 16	:31 Re	ceived: 0	7/28/03 17	:25				
No TICs found	ND	10	ug/l	1	3070657	07/30/03	08/07/03	EPA 8270C	
35D-SB26-15 (P307532-04) Soil	Sampled: 07/25/03 16:49	Receive	ed: 07/28	3/03 17:25					
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
35D-SB26-30 (P307532-06) Soil	Sampled: 07/28/03 10:44	Receive	ed: 07/28	3/03 17:25					
Unknown alkane 1	300	10	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
35D-SB26-35 (P307532-07) Soil	Sampled: 07/28/03 11:05	Receive	ed: 07/28	3/03 17:25					
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
35D-SB26-35D (P307532-08) So	il Sampled: 07/28/03 11:0	5 Recei	ved: 07/2	28/03 17:25	5				
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
35D-SB26-40 (P307532-09) Soil	Sampled: 07/28/03 11:39	Receive	ed: 07/28	3/03 17:25					
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
35D-SB26-45 (P307532-10) Soil	Sampled: 07/28/03 12:02	Receive	ed: 07/28	3/03 17:25					
No TICs found	ND	10	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	





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Tentatively Identified Compounds by GC/MS Sequoia Analytical - Petaluma

	1		·						
Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-2.5 (P307532-11) Soil S	Sampled: 07/28/03 15:48	Receiv	ed: 07/28	3/03 17:25					
Unknown alkane 1	300	10	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
35D-SB26-20E (P307532-12) Water	r Sampled: 07/28/03 15:	:54 Re	ceived: 0	7/28/03 17	:25				
No TICs found	ND	10	ug/l	1	3070657	07/30/03	08/07/03	EPA 8270C	



Project: Aerojet RI/FS
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P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
-					Batch	Trepared	Anaryzeu	Wichiod	rvoics
35D-SB26-6 (P307532-01) Soil	Sampled: 07/25/03 16:06	Receive	d: 07/28/0	3 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1.2-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND ND	330	"	"	"	"	,,	"	
3,3'-Dichlorobenzidine	ND ND	660	"	"	"	"	,,	"	
2,4-Dichlorophenol	ND ND	330	,,	,,	,,	"	"	,,	
	ND ND	330	,,	,,	"	"	,,	"	
Diethyl phthalate	ND ND		,,	"	"	"	,,	,,	
2,4-Dimethylphenol		330	,,	"	,,	"	,,	,,	
Dimethyl phthalate	ND	330		"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1700	"	"	"	"	"		
2,4-Dinitrophenol	ND	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	330		"	"	"	"		
2,6-Dinitrotoluene	ND	330		"	"	"			
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma



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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-6 (P307532-01) Soil	Sampled: 07/25/03 16:06	Received	1: 07/28/0	3 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		63 %	11-1	120	"	"	"	"	
Surrogate: Phenol-d6		72 %	16-	130	"	"	"	"	
Surrogate: Nitrobenzene-d5		76 %	16-1	126	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77 %	28-	134	"	"	"	"	
Surrogate: 2,4,6-Tribromopheno	l	77 %	51-1	144	"	"	"	"	
Surrogate: Terphenyl-d14		99 %	64-	119	"	"	"	"	



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P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-11 (P307532-02) Soil	Sampled: 07/25/03 16:19	Receiv	ed: 07/28	/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	,,	"	
1,4-Dichlorobenzene	ND	330	"	"	"	"	,,	"	
3,3´-Dichlorobenzidine	ND	660	"	"	"	"	••	"	
2,4-Dichlorophenol	ND	330	"	"	"	"	••	"	
Diethyl phthalate	ND ND	330	,,	"	"	"	"	"	
2,4-Dimethylphenol	ND	330	,,	"	"	"	"	"	
Dimethyl phthalate	ND ND	330	,,	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND ND	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND ND	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND ND	330	,,	"	"	"	"	"	
2,6-Dinitrotoluene	ND ND	330	,,	"	"	"	"	"	
<i>'</i>	ND ND	330	,,	"	"	"	"	"	
Di-n-octyl phthalate Fluoranthene			"	"	"	"	,,	"	
гиоганивене	ND	330							

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	R Result	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-11 (P307532-02) Soil	Sampled: 07/25/03 16:19	Receive	ed: 07/28/0	03 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		67 %	11-1	20	"	"	"	"	
Surrogate: Phenol-d6		76 %	16-1	30	"	"	"	"	
Surrogate: Nitrobenzene-d5		80 %	16-1	26	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		82 %	28-1	34	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		85 %	51-1	44	"	"	"	"	
Surrogate: Terphenyl-d14		107 %	64-1	19	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

	Repo	-	-						
Analyte	Result I	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-15E (P307532-03) Water	Sampled: 07/25/03 16:31	Re	ceived: 0	7/28/03 17:	:25				
Acenaphthene	ND	11	ug/l	1	3070657	07/30/03	08/07/03	EPA 8270C	
Acenaphthylene	ND	11	"	"	"	"	"	"	
Anthracene	ND	11	"	"	"	"	"	"	
Azobenzene	ND	21	"	"	"	"	"	"	
Benzidine	ND	53	"	"	"	"	"	"	
Benzoic acid	ND	53	"	"	"	"	"	"	
Benzo (a) anthracene	ND	11	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	11	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	11	"	"	"	"	"	"	
Benzo (a) pyrene	ND	11	"	"	"	"	"	"	
Benzyl alcohol	ND	21	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	11	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	11	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	11	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	11	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	11	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	11	"	"	"	"	"	"	
4-Chloroaniline	ND	21	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	21	"	"	"	"	,,	"	
2-Chloronaphthalene	ND	11	"	"	"	"	••	"	
2-Chlorophenol	ND	11	"	"	"	"	,,	"	
4-Chlorophenyl phenyl ether	ND	11	"	"	"	"	,,	"	
Chrysene	ND	11	"	"	"	"	••	"	
Dibenz (a,h) anthracene	ND	11	"	"	"	"	"	"	
Dibenzofuran	ND	11	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	11	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND ND	11	"	"	,,	"	,,	"	
1,3-Dichlorobenzene	ND ND	11	,,	"	,,	"	,,	"	
1,4-Dichlorobenzene	ND ND	11	,,	"	,,	"	,,	"	
3,3´-Dichlorobenzidine	ND ND	21	,,	"	,,	"	,,	"	
2,4-Dichlorophenol	ND ND	11	,,	"	,,	"	"	,,	
-	ND ND	11	,,	"	,,	"	,,	,,	
Diethyl phthalate	ND ND		,,	"	,,	"	,,	,,	
2,4-Dimethylphenol		11	,,	,,	,,	,,	,,	,,	
Dimethyl phthalate	ND	11	.,	"	.,	"	,,		
4,6-Dinitro-2-methylphenol	ND ND	53	.,	"	.,	"	,,	"	
2,4-Dinitrophenol	ND	53	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	11		"	"	"	"	"	
2,6-Dinitrotoluene	ND	11	"						
Di-n-octyl phthalate	ND	11	"	"	"	"	"	"	
Fluoranthene	ND	11	"	"	"	"	"	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
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Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-15E (P307532-03) Water	Sampled: 07/25/03 16	:31 Re	ceived: 0	7/28/03 17:	:25				
Fluorene	ND	11	ug/l	1	3070657	07/30/03	08/07/03	EPA 8270C	
Hexachlorobenzene	ND	11	"	"	"	"	"	"	
Hexachlorobutadiene	ND	11	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	11	"	"	"	"	"	"	
Hexachloroethane	ND	11	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	11	"	"	"	"	"	"	
Isophorone	ND	11	"	"	"	"	"	"	
2-Methylnaphthalene	ND	11	"	"	"	"	"	"	
2-Methylphenol	ND	11	"	"	"	"	"	"	
4-Methylphenol	ND	11	"	"	"	"	"	"	
Naphthalene	ND	11	"	"	"	"	"	"	
2-Nitroaniline	ND	53	"	"	"	"	"	"	
3-Nitroaniline	ND	53	"	"	"	"	"	"	
4-Nitroaniline	ND	53	"	"	"	"	"	"	
Nitrobenzene	ND	11	"	"	"	"	"	"	
2-Nitrophenol	ND	11	"	"	"	"	"	"	
4-Nitrophenol	ND	53	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	21	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	11	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	11	"	"	"	"	"	"	
Pentachlorophenol	ND	53	"	"	"	"	"	"	
Phenanthrene	ND	11	"	"	"	"	"	"	
Phenol	ND	11	"	"	"	"	"	"	
Pyrene	ND	11	"	"	"	"	"	"	
Pyridine	ND	11	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	11	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	11	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	11	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		63 %	15-	-103	"	"	"	"	
Surrogate: Phenol-d6		71 %	18-	-115	"	"	"	"	
Surrogate: Nitrobenzene-d5		90 %	39-	-103	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		91 %	40-	-124	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91 %	11-	-142	"	"	"	"	
Surrogate: Terphenyl-d14		65 %	56-	-139	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	Limit Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-15 (P307532-04) Soil	Sampled: 07/25/03 16:49	Receive	ed: 07/28	/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	••	"	
1,2-Dichlorobenzene	ND	330	,,	"	"	"	"	"	
1,3-Dichlorobenzene	ND ND	330	"	,,	"	"	"	"	
1,4-Dichlorobenzene	ND ND	330	"	,,	"	"	"	"	
3,3´-Dichlorobenzidine	ND ND	660	,,	,,	"	"	,,	"	
2,4-Dichlorophenol	ND ND	330	,,	,,	"	"	,,	"	
Diethyl phthalate	ND ND	330	,,	,,	"	"	,,	"	
2,4-Dimethylphenol	ND ND	330	,,	,,	"	"	,,	"	
			,,	,,	"	,,	,,	"	
Dimethyl phthalate	ND ND	330		,,	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND ND	1700		,,	"	"	,,	"	
2,4-Dinitrophenol	ND	1700	"	,,	"	"	,,	"	
2,4-Dinitrotoluene	ND ND	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	R Result	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-15 (P307532-04) Soil	Sampled: 07/25/03 16:49	Receive	ed: 07/28/0	03 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		62 %	11-1	20	"	"	"	"	
Surrogate: Phenol-d6		71 %	16-1	30	"	"	"	"	
Surrogate: Nitrobenzene-d5		74 %	16-1	26	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76 %	28-1	34	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		77 %	51-1	44	"	"	"	"	
Surrogate: Terphenyl-d14		96 %	64-1	19	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
					Daten	Trepared	Anaryzeu	Wictiod	Notes
35D-SB26-30 (P307532-06) Soil	Sampled: 07/28/03 10:44	Receive	ed: 07/28/	/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	65	330	"	"	"	"	"	"	J
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1.2-Dichlorobenzene	ND	330	"	"	"	"	,,	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	,,	"	
1,4-Dichlorobenzene	ND	330	"	"	"	"	••	"	
3,3´-Dichlorobenzidine	ND	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	330	"	"	"	"	"	"	
Diethyl phthalate	ND	330	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	330	"	"	"	"	"	"	
Dimethyl phthalate	ND ND	330	"	,,	"	"	,,	,,	
4,6-Dinitro-2-methylphenol	ND ND	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND ND	1700	"	"	"	"	,,	,,	
2,4-Dinitropnenoi 2,4-Dinitrotoluene	ND ND		"	"	"	"	,,	"	
		330	,	"	"	"	,,	,,	
2,6-Dinitrotoluene	ND	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-30 (P307532-06) Soil	Sampled: 07/28/03 10:44	Receive	ed: 07/28/0	3 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		59 %	11-1.	20	"	"	"	"	
Surrogate: Phenol-d6		68 %	16-1.	30	"	"	"	"	
Surrogate: Nitrobenzene-d5		67 %	16-1.	26	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		69 %	28-1.	34	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		78 %	51-1-	44	"	"	"	"	
Surrogate: Terphenyl-d14		100 %	64-1	19	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	R Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-35 (P307532-07) Soil	Sampled: 07/28/03 11:05	Receiv	ed: 07/28	/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	330	,,	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	,,	"	"	"	"	"	
1,4-Dichlorobenzene	ND	330	,,	"	"	"	"	"	
3,3´-Dichlorobenzidine	ND ND	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND ND	330	"	"	"	"	"	"	
Diethyl phthalate	ND ND	330	,,	"	"	"	"	"	
2,4-Dimethylphenol	ND ND	330	,,	"	"	"	"	"	
Dimethyl phthalate	ND ND	330	,,	"	"	"	"	"	
	ND ND	1700	"	"	"	"	,,	,,	
4,6-Dinitro-2-methylphenol	ND ND		,,	"	"	"	,,	,,	
2,4-Dinitrophenol		1700	,,	,,			,,		
2,4-Dinitrotoluene	ND	330	,,	"	"	"	,,	,,	
2,6-Dinitrotoluene	ND	330	"	"	"	"	,,	,,	
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	**	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	R Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-35 (P307532-07) Soil	Sampled: 07/28/03 11:05	Receive	ed: 07/28/	03 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		65 %	11-1	20	"	"	"	"	
Surrogate: Phenol-d6		74 %	16-1	30	"	"	"	"	
Surrogate: Nitrobenzene-d5		77 %	16-1	26	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		77 %	28-1	34	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		76 %	51-1	44	"	"	"	"	
Surrogate: Terphenyl-d14		99 %	64-1	19	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Re Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-35D (P307532-08) Soil	Sampled: 07/28/03 11:05	Rece	ived: 07/2	28/03 17:25	j				
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"		"	
2-Chloronaphthalene	ND	330	"	"	"	"		"	
2-Chlorophenol	ND	330	"	"	"	"		"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"		"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	,,	"	,,	"	,,	"	
1,2-Dichlorobenzene	ND ND	330	,,	"	,,	"	,,	"	
1,3-Dichlorobenzene	ND ND	330	,,	"	,,	"	,,	"	
1,4-Dichlorobenzene	ND ND	330	,,	,,	,,	"	,,	"	
3,3´-Dichlorobenzidine	ND ND	660	,,	,,	,,	"	,,	"	
,			,,	,,	,,	,,	"	"	
2,4-Dichlorophenol	ND ND	330	,,	,,	,,	,,	,,	"	
Diethyl phthalate		330	,,	,,	,,		,,	"	
2,4-Dimethylphenol	ND	330	,,	"	.,		,,		
Dimethyl phthalate	ND	330	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1700			"	"			
2,4-Dinitrophenol	ND	1700	"	"			"	"	
2,4-Dinitrotoluene	ND	330	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	330	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anarytt						ricpared	Anaryzeu	Method	Notes
35D-SB26-35D (P307532-08) Soil	Sampled: 07/28/03 11:05	Recei	ived: 07/2	8/03 17:25	; 				
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		57 %	11-1	120	"	"	"	"	
Surrogate: Phenol-d6		65 %	16-1	130	"	"	"	"	
Surrogate: Nitrobenzene-d5		66 %	16-1	126	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		68 %	28-1	134	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		74 %	51-1	144	"	"	"	"	
Surrogate: Terphenyl-d14		99 %	64-1	119	"	"	"	"	
= •									



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

		eporting			_	_			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-40 (P307532-09) Soil	Sampled: 07/28/03 11:39	Receive	ed: 07/28	/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	,,	"	
2-Chloronaphthalene	ND	330	"	"	"	"	••	"	
2-Chlorophenol	ND	330	"	"	"	"	,,	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	••	"	
Chrysene	ND	330	"	"	"	"	••	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	••	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND ND	330	,,	"	"	,,	,,	"	
1,3-Dichlorobenzene	ND ND	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND ND	330	,,	"	"	,,	,,	"	
3,3´-Dichlorobenzidine	ND ND	660	,,	"	"	,,	,,	"	
2,4-Dichlorophenol	ND ND	330	,,	"	"	,,	"	,,	
-	ND ND	330	,,	,,	"	,,	,,	,,	
Diethyl phthalate	ND ND		,,	,,	"	,,	,,	,,	
2,4-Dimethylphenol		330	,,	"	"	,,	,,	,,	
Dimethyl phthalate	ND	330	,,	"	"		,,		
4,6-Dinitro-2-methylphenol	ND ND	1700	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1700	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	330		"	"	"	"		
2,6-Dinitrotoluene	ND	330						"	
Di-n-octyl phthalate	ND	330	"	"	"	"	"	"	
Fluoranthene	ND	330	"	"	"	"	"	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	R Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-40 (P307532-09) Soil	Sampled: 07/28/03 11:39	Receive	ed: 07/28/0	3 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/07/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		64 %	11-1	20	"	"	"	"	
Surrogate: Phenol-d6		71 %	16-1	30	"	"	"	"	
Surrogate: Nitrobenzene-d5		76 %	16-1	26	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76 %	28-1	34	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		78 %	51-1	44	"	"	"	"	
Surrogate: Terphenyl-d14		100 %	64-1	19	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

		eporting		D.1. :	ъ	ъ.			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-45 (P307532-10) Soil	Sampled: 07/28/03 12:02	Receive	ed: 07/28/	/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1.2-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	330	"	"	"	"		"	
3,3´-Dichlorobenzidine	ND	660	"	"	"	"		"	
2,4-Dichlorophenol	ND	330	"	"	"	"	"	"	
Diethyl phthalate	ND	330	,,	"	"	"	"	"	
2,4-Dimethylphenol	ND	330	,,	"	"	"	"	"	
Dimethyl phthalate	ND ND	330	,,	"	"	,,	,,	"	
4,6-Dinitro-2-methylphenol	ND ND	1700	,,	"	"	,,	"	"	
2,4-Dinitro-2-methylphenol	ND ND	1700	,,	"	"	,,	,,	,,	
-			,,	"	"	,,	,,	,,	
2,4-Dinitrotoluene	ND ND	330	,,	"	"	,,	"		
2,6-Dinitrotoluene	ND	330	"	"	"	,,	"	"	
Di-n-octyl phthalate	ND	330	"	"	"	,,	"	,,	
Fluoranthene	ND	330	.,	"	"	"	"		

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	R Result	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-45 (P307532-10) Soil	Sampled: 07/28/03 12:02	Receive	ed: 07/28/	03 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		54 %	11-1	120	"	"	"	"	
Surrogate: Phenol-d6		63 %	16-1	130	"	"	"	"	
Surrogate: Nitrobenzene-d5		60 %	16-1	126	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		55 %	28-1	134	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		63 %	51-1	144	"	"	"	"	
Surrogate: Terphenyl-d14		94 %	64-1	119	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	eporting Limit	Units	Dilution	Batch	Proporad	Analyzed	Method	Notes
,					Васп	Prepared	Anaiyzed	Method	Notes
35D-SB26-2.5 (P307532-11) Soil	Sampled: 07/28/03 15:48	Receiv	ed: 07/28	3/03 17:25					
Acenaphthene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Acenaphthylene	ND	330	"	"	"	"	"	"	
Anthracene	ND	330	"	"	"	"	"	"	
Azobenzene	ND	330	"	"	"	"	"	"	
Benzidine	ND	1700	"	"	"	"	"	"	
Benzoic acid	ND	1700	"	"	"	"	"	"	
Benzo (a) anthracene	ND	330	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	330	"	"	"	"	"	"	
Benzo (a) pyrene	ND	330	"	"	"	"	"	"	
Benzyl alcohol	ND	660	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	330	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	330	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	39	330	"	"	"	"	"	"	J
4-Bromophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	330	"	"	"	"	"	"	
4-Chloroaniline	ND	660	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	660	"	"	"	"	"	"	
2-Chloronaphthalene	ND	330	"	"	"	"	"	"	
2-Chlorophenol	ND	330	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	330	"	"	"	"	"	"	
Chrysene	ND	330	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	330	"	"	"	"	"	"	
Dibenzofuran	ND	330	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	330	"	"	"	"	"	"	
1.2-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	330	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	330	"	"	"	"	,,	"	
3,3´-Dichlorobenzidine	ND	660	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	330	"	"	"	"	,,	"	
Diethyl phthalate	ND	330	"	"	"	"	,,	"	
2,4-Dimethylphenol	ND	330	"	"	"	"	,,	"	
Dimethyl phthalate	ND	330	,,	,,	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND ND	1700	,,	"	"	"	,,	"	
2,4-Dinitrophenol	ND ND	1700	,,	"	"	"	"	"	
2,4-Dinitrotoluene	ND ND	330	,,	"	"	"	"	"	
2,6-Dinitrotoluene	ND ND	330	,,	"	"	"	"	"	
,	ND ND	330		"	"	"	"	"	
Di-n-octyl phthalate Fluoranthene	ND ND	330		"	"	"	"	"	
riuoranimene	ND	330							

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	Result	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-2.5 (P307532-11) Soil	Sampled: 07/28/03 15:48	Receiv	ed: 07/28/	03 17:25					
Fluorene	ND	330	ug/kg	1	3070671	07/31/03	08/08/03	EPA 8270C	
Hexachlorobenzene	ND	330	"	"	"	"	"	"	
Hexachlorobutadiene	ND	330	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	330	"	"	"	"	"	"	
Hexachloroethane	ND	330	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	"	"	"	"	"	
Isophorone	ND	330	"	"	"	"	"	"	
2-Methylnaphthalene	ND	330	"	"	"	"	"	"	
2-Methylphenol	ND	330	"	"	"	"	"	"	
4-Methylphenol	ND	330	"	"	"	"	"	"	
Naphthalene	ND	330	"	"	"	"	"	"	
2-Nitroaniline	ND	1700	"	"	"	"	"	"	
3-Nitroaniline	ND	1700	"	"	"	"	"	"	
4-Nitroaniline	ND	1700	"	"	"	"	"	"	
Nitrobenzene	ND	330	"	"	"	"	"	"	
2-Nitrophenol	ND	330	"	"	"	"	"	"	
4-Nitrophenol	ND	1700	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	330	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	330	"	"	"	"	"	"	
Pentachlorophenol	ND	1700	"	"	"	"	"	"	
Phenanthrene	ND	330	"	"	"	"	"	"	
Phenol	ND	330	"	"	"	"	"	"	
Pyrene	ND	330	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	330	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	330	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	330	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		54 %	11-1	20	"	"	"	"	
Surrogate: Phenol-d6		66 %	16-1	30	"	"	"	"	
Surrogate: Nitrobenzene-d5		61 %	16-1	26	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		74 %	28-1	34	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		83 %	51-1	44	"	"	"	"	
Surrogate: Terphenyl-d14		92 %	64-1	19	"	"	"	"	



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C Sequoia Analytical - Petaluma

Analyte	Result	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
·						Frepareu	Allalyzeu	Wethod	Notes
35D-SB26-20E (P307532-12) Water	Sampled: 07/28/03 15:5	54 Re	ceived: 0	7/28/03 17	:25				
Acenaphthene	ND	10	ug/l	1	3070657	07/30/03	08/07/03	EPA 8270C	
Acenaphthylene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
Azobenzene	ND	20	"	"	"	"	"	"	
Benzidine	ND	51	"	"	"	"	"	"	
Benzoic acid	ND	51	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Benzo (b+k) fluoranthene (total)	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	20	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	10	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	10	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	10	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	10	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	10	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	10	"	"	"	"	"	"	
1.2-Dichlorobenzene	ND	10	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	10	"	"	"	"	.,	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	••	"	
3,3´-Dichlorobenzidine	ND	20	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	,,	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	10	"	"	,,	"	"	"	
Dimethyl phthalate	ND ND	10	"	,,	,,	"	,,	,,	
4,6-Dinitro-2-methylphenol	ND ND	51	"	,,	,,	"	"	"	
2,4-Dinitro- <i>z</i> -methylphenol	ND ND	51	"	,,	,,	"	,,	,,	
-		10	"	,,	,,	"	,,	,,	
2,4-Dinitrotoluene	ND ND			,,	.,	"	,,		
2,6-Dinitrotoluene	ND	10	"	,,	.,	"	"	"	
Di-n-octyl phthalate	ND	10	"	,,	.,	"	,,	,,	
Fluoranthene	ND	10			**		**		

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Analyte	•	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
35D-SB26-20E (P307532-12) Water	Sampled: 07/28/03 15:5	4 Re	ceived: 0	7/28/03 17:	:25				
Fluorene	ND	10	ug/l	1	3070657	07/30/03	08/07/03	EPA 8270C	
Hexachlorobenzene	ND	10	"	"	"	"	"	"	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	10	"	"	"	"	"	"	
Hexachloroethane	ND	10	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	10	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
4-Methylphenol	ND	10	"	"	"	"	"	"	
Naphthalene	ND	10	"	"	"	"	"	"	
2-Nitroaniline	ND	51	"	"	"	"	"	"	
3-Nitroaniline	ND	51	"	"	"	"	"	"	
4-Nitroaniline	ND	51	"	"	"	"	"	"	
Nitrobenzene	ND	10	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	51	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	20	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	10	"	"	"	"	"	"	
Pentachlorophenol	ND	51	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
Phenol	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol	(54 %	15-	103	"	"	"	"	
Surrogate: Phenol-d6		73 %	18-	115	"	"	"	"	
Surrogate: Nitrobenzene-d5		90 %	39-	103	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	9	92 %	40-	124	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92 %		142	"	"	"	"	
Surrogate: Terphenyl-d14		03 %		139	"	"	"	"	





Project: Aerojet RI/FS Project Number: N/A Project Manager: Bruce Lewis

P307532 Reported: 08/15/03 12:43

RPD

%REC

Tentatively Identified Compounds by GC/MS - Quality Control Sequoia Analytical - Petaluma

Spike

Source

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3070657 - EPA 3520B Liq	Liquid									
Blank (3070657-BLK1)				Prepared:	07/30/03	Analyzed	1: 08/07/03			
No TICs found	ND	10	ug/l							
Batch 3070671 - EPA 3550A Sor	nication									
Blank (3070671-BLK1)				Prepared:	07/31/03	Analyzed	1: 08/07/03			
No TICs found	ND	10	ug/kg							



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Batch 3070657	- EPA 3520B	LiqLiquid
---------------	-------------	-----------

Acenaphthylene ND 10 ug/l Acenaphtylene ND 10 " Arubracene ND 20 " Azobarzene ND 50 " Benzoi acid ND 50 " Benzoi caid ND 10 " Benzo (a) ambracene ND 10 " Benzo (a) pyrene ND 10 " Benzo (a) pyrene ND 10 " Benzy alcohol ND 20 " BisiQ-chlorocthoxy)methane ND 10 " BisiQ-chlorocthoxy)methane ND 10 " BisiQ-chlorocthoxy)methane ND 10 " BisiQ-chlorocthy)beher ND 10 " BisiQ-chlorocthy)beher ND 10 " BisiQ-chlorocthy)behulate ND 10 " 4-Bromophenyl phenyl ether ND 10 " 4-Chloroaphthalene ND 10 "	Blank (3070657-BLK1)				Prepared: 07/30/03 Analyzed: 08/07/03
Anthracene ND 10 " Azobenzene ND 20 " Benzoic acid ND 50 " Benzo (a) anthracene ND 10 " Benzo (g,h.i) perylene ND 10 " Benzo (a) pyrene ND 10 " Bis(2-chloroethoxy)methane ND 10 " Bis(2-chloroethy)beher ND 10 " Bis(2-chloroethy)beher ND 10 " Bis(2-chloroethy)behalate ND 10 " 4-Bromophenyl phenyl ether ND 10 " 4-Chloro-aphthalaene ND 10 " 2-Chlorophenyl phenyl ether ND 10	Acenaphthene	ND	10	ug/l	
Azobenzene ND 20 " Benzidine ND 50 " Benzo (a) anthracene ND 10 " Benzo (b+k) fluoranthene (total) ND 10 " Benzo (b-k) fluoranthene (total) ND 10 " Benzo (a), pyrene ND 10 " Benzo (a) pyrene ND 10 " Benzo (a) pyrene ND 10 " Benzo (a) byrene ND 10 " Bis(2-chlorostoxy)methane ND 10 " Bis(2-chlorosty)bytheter ND 10 " Bis(2-chlorosty)bytheter ND 10 " Bis(2-chlorosty)bythalate ND 10 " 4-Bromophenyl phenyl ether ND 10 " 4-Chlorosamethylphenol ND 20 " 2-Chloroaphthalene ND 10 " 2-Chlorophenol phenyl ether ND 10 " Chrysene ND <td>Acenaphthylene</td> <td>ND</td> <td>10</td> <td>"</td> <td></td>	Acenaphthylene	ND	10	"	
Benzidine ND 50 Benzoi caical ND 50 Benzo (a hithracene ND 10 Benzo (b+k) fluoranthene (total) ND 10 Benzo (g,h.i) perylene ND 10 Benzo (a) pyrene ND 10 Benzy al cohol ND 20 Bis(2-chloroethoxy)methane ND 10 Bis(2-chloroethy)bether ND 10 4-Bromophenyl phenyl ether ND 10 4-Chlorora-methylphenol ND 20 4-Chloropambhalene ND 10 2-Chlorophenyl phenyl ether ND 10 Diberz (a,h) anthracene ND 10 Diberz (a,h) anthracene ND	Anthracene	ND	10	"	
Benzoic acid ND 50 * Benzo (a) anthracene ND 10 * Benzo (b+k) fluoranthene (total) ND 10 * Benzo (a), preylene ND 10 * Benzo (a) pyrene ND 10 * Benzyl alcohol ND 20 * Bis(2-chloroethoxy)methane ND 10 * Bis(2-chloroethyl)ether ND 10 * 4-Bromophenyl phenyl ether ND 10 * 4-Chlorophenyl phenyl ether ND 10 * 4-Chlorophenyl phenyl ether ND 10 * Chysene ND 10 * Dibenz (a,h) anthracene ND 10 * Dibenz (a,h) anthracene <td>Azobenzene</td> <td>ND</td> <td>20</td> <td>"</td> <td></td>	Azobenzene	ND	20	"	
Benzo (a) anthracene ND 10 Benzo (brł-k) fluoranthene (total) ND 10 Benzo (gh.i) perylene ND 10 Benzo (a) pyrene ND 10 Benzyl alcohol ND 20 Bis(2-chloroethy)ethene ND 10 Bis(2-chloroethy)ether ND 10 Bis(2-chlorospyr)ether ND 10 Bis(2-chlorophyl)ether ND 10 Bis(2-chlorophyl)ether ND 10 Bis(2-chlorophyl)ether ND 10 Bis(2-chlorophyl)ether ND 10 Bis(2-chlylhexyl)phthalate ND 10 Chlorophylphenol ND 10 Chlylorophenol ND 10 Ubenzofuran ND 10 Uishenzofuran ND 1	Benzidine	ND	50	"	
Benzo (s,h.i) perylene ND 10 Benzo (a) pyrene ND 10 Benzo (a) pyrene ND 10 Benzyl alcohol ND 10 Bis(2-chloroethoxy)methane ND 10 Bis(2-chloroethy/)ether ND 10 Bis(2-chloroispropyl)ether ND 10 Butyl benzyl phthalate ND 10 " 4-Chloros-amethylphenol ND 20 " 2-Chlorophenol ND 10 " 2-Chlorophenol ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " 1,3-Dichlorobenzene ND	Benzoic acid	ND	50	"	
Benzo (a) pyrene ND 10 " Benzo (a) pyrene ND 10 " Benzyl alcohol ND 20 " Bis(2-chloroethoxy)methane ND 10 " Bis(2-chloroisopropylether ND 10 " Bis(2-chloroisopropylether ND 10 " Bis(2-chloroisopropylether ND 10 " 4-Bromophenyl phenyl ether ND 10 " 4-Bromophenyl phenyl ether ND 10 " 8-Bromophenyl phenyl ether ND 10 " 4-Chloro-3-methylphenol ND 20 " 4-Chloro-3-methylphenol ND 10 " 2-Chlorophenol ND 10 " 4-Chloro-3-methylphenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Di-butyl phthalate <td>Benzo (a) anthracene</td> <td>ND</td> <td>10</td> <td>"</td> <td></td>	Benzo (a) anthracene	ND	10	"	
Benzo (a) pyrene ND 10 " Benzy alcohol ND 20 " Bis(2-chloroethy)methane ND 10 " Bis(2-chloroethy)bether ND 10 " Bis(2-chlyrexyl)phthalate ND 10 " Bis(2-chlyrexyl)phthalate ND 10 " 4-Bromophenyl phenyl ether ND 10 " 4-Bromophenyl phenyl ether ND 10 " 4-Chlororaline ND 20 " 4-Chlororaphthalene ND 10 " 2-Chlorophenyl phenyl ether ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenzofuran ND 10 " Dibenzofuran ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,5-Dichlorobenzene ND <td< td=""><td>Benzo (b+k) fluoranthene (total)</td><td>ND</td><td>10</td><td>"</td><td></td></td<>	Benzo (b+k) fluoranthene (total)	ND	10	"	
Benzyl alcohol ND 20 Bis(2-chloroethoxy)methane ND 10 Bis(2-chloroethy)lether ND 10 Bis(2-chloroispropyl)ether ND 10 Bis(2-chloroispropyl)pthalate ND 10 Bis(2-chloroispropyl)pthalate ND 10 Bis(2-chloroispropyl)pthalate ND 10 4-Chloro-3-methylphenol ND 10 ** 4-Chloro-3-methylphenol ND 10 ** 2-Chlorophenol ND 10 ** 4-Chloro-3-methylphenol ND 10 ** 10-benzoluran ND 10 ** Dibenz (a.h) anthracene ND 10 ** Di-benzoluran ND 10 ** 1,3-Dichlorobenzene ND 10 **	Benzo (g,h,i) perylene	ND	10	"	
Bis(2-chloroethoxy)methane ND 10 Bis(2-chloroethy)bether ND 10 Bis(2-chloroisopropy)bether ND 10 Bis(2-chlyflhexy)phthalate ND 10 4-Bromophenyl phenyl ether ND 10 Butyl benzyl phthalate ND 10 4-Chloroaniline ND 20 4-Chloro-3-methylphenol ND 20 2-Chloronphthalene ND 10 2-Chlorophenol ND 10 4-Chlorophenyl phenyl ether ND 10 Chrysene ND 10 Dibenz (a,h) anthracene ND 10 Dibenzofuran ND 10 Di-n-butyl phthalate ND 10 1,2-Dichlorobenzene ND 10 1,3-Dichlorobenzene ND 10 1,4-Dichlorobenzene ND 10 2,4-Dinelorophenol ND 10 3,3'-Dichlorobenzidine ND 10 2,4-Dimethylphenol ND 10	Benzo (a) pyrene	ND	10	"	
Bis(2-chlorosiporpyl)ether ND 10 Bis(2-chlylorosiporpyl)ether ND 10 Bis(2-chlylorosiporpyl)ether ND 10 Bis(2-chlylorosiporpyl)phenyl ether ND 10 Bis(2-chlylorosyl)phthalate ND 10 Bis(2-chlylorosyl)phthalate ND 10 Bis(2-chlylorosyl)phthalate ND 10 Bis(2-chlylorosyl)phthalate ND 10 4-Chlorosimiline ND 10 4-Chloro-3-methylphenol ND 20 4-Chloro-3-methylphenol ND 10 2-Chlorophenol ND 10 4-Chlorophenol ND 10 2-Chlorophenol ND 10 Chrysene ND 10 Dibenzofuran ND 10 Dibenzofuran ND 10 1,2-Dichlorobenzene ND 10 1,3-Dichlorobenzene ND 10 3,3-Dichlorobenzene ND 10 3,3-Dichlorobenzidine ND 10 <td>Benzyl alcohol</td> <td>ND</td> <td>20</td> <td>"</td> <td></td>	Benzyl alcohol	ND	20	"	
Bis(2-chloroisopropyl)ether ND 10 " Bis(2-ethylhexyl)phthalate ND 10 " 4-Bromophenyl phenyl ether ND 10 " Butyl benzyl phthalate ND 10 " 4-Chloroaniline ND 20 " 4-Chloro-3-methylphenol ND 10 " 2-Chlorophenol ND 10 " 4-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Urberz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dinethylphenol ND 10 " Dientyl phthalate ND	Bis(2-chloroethoxy)methane	ND	10	"	
Bis(2-ethylhexyl)phthalate	Bis(2-chloroethyl)ether	ND	10	"	
4-Bromophenyl phenyl ether ND 10 " Butyl benzyl phthalate ND 10 " 4-Chloro-3-methylphenol ND 20 " 2-Chloronaphthalene ND 10 " 2-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " 1,2-Dichlorobenzene ND 10 " 1,2-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 10 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dichlorophenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50<	Bis(2-chloroisopropyl)ether	ND	10	"	
Butyl benzyl phthalate ND 10 " 4-Chloroaniline ND 20 " 4-Chloro-3-methylphenol ND 20 " 2-Chloroaphthalene ND 10 " 2-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " 1,2-Dichlorobenzene ND 10 " 1,2-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 10 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50	Bis(2-ethylhexyl)phthalate	ND	10	"	
4-Chloroaniline ND 20 " 4-Chloro-3-methylphenol ND 20 " 2-Chloronaphthalene ND 10 " 2-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " 1,2-Dichlorobenzene ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 10 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	4-Bromophenyl phenyl ether	ND	10	"	
4-Chloro-3-methylphenol ND 20 " 2-Chloronaphthalene ND 10 " 2-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " 1,2-Dichlorobenzene ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorobenzidine ND 10 " 2,4-Dichlorobenzidine ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	Butyl benzyl phthalate	ND	10	"	
2-Chloronaphthalene ND 10 " 2-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 2,4-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	4-Chloroaniline	ND	20	"	
2-Chlorophenol ND 10 " 4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 2,4-Dichlorobenzidine ND 10 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	4-Chloro-3-methylphenol	ND	20	"	
4-Chlorophenyl phenyl ether ND 10 " Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	2-Chloronaphthalene	ND	10	"	
Chrysene ND 10 " Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorobenzidine ND 10 " 2,4-Dichlorophenol ND 10 " Diettyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	2-Chlorophenol	ND	10	"	
Dibenz (a,h) anthracene ND 10 " Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	4-Chlorophenyl phenyl ether	ND	10	"	
Dibenzofuran ND 10 " Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	Chrysene	ND	10	"	
Di-n-butyl phthalate ND 10 " 1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzidine ND 10 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	Dibenz (a,h) anthracene	ND	10	"	
1,2-Dichlorobenzene ND 10 " 1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	Dibenzofuran	ND	10	"	
1,3-Dichlorobenzene ND 10 " 1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	Di-n-butyl phthalate	ND	10	"	
1,4-Dichlorobenzene ND 10 " 3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	1,2-Dichlorobenzene	ND	10	"	
3,3'-Dichlorobenzidine ND 20 " 2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	1,3-Dichlorobenzene	ND	10	"	
2,4-Dichlorophenol ND 10 " Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	1,4-Dichlorobenzene	ND	10	"	
Diethyl phthalate ND 10 " 2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	3,3'-Dichlorobenzidine	ND	20	"	
2,4-Dimethylphenol ND 10 " Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	2,4-Dichlorophenol	ND	10	"	
Dimethyl phthalate ND 10 " 4,6-Dinitro-2-methylphenol ND 50 "	Diethyl phthalate	ND	10	"	
4,6-Dinitro-2-methylphenol ND 50 "	2,4-Dimethylphenol	ND	10	"	
	Dimethyl phthalate	ND	10	"	
2,4-Dinitrophenol ND 50 "	4,6-Dinitro-2-methylphenol	ND	50	"	
	2,4-Dinitrophenol	ND	50	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Batch	3070657	- EPA	3520B	Liqi	.1quid

Blank (3070657-BLK1)				Prepared: 07/30/03 Analyzed: 08/07/03
2,4-Dinitrotoluene	ND	10	ug/l	
2,6-Dinitrotoluene	ND	10	"	
Di-n-octyl phthalate	ND	10	"	
Fluoranthene	ND	10	"	
Fluorene	ND	10	"	
Hexachlorobenzene	ND	10	"	
Hexachlorobutadiene	ND	10	"	
Hexachlorocyclopentadiene	ND	10	"	
Hexachloroethane	ND	10	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	
Isophorone	ND	10	"	
2-Methylnaphthalene	ND	10	"	
2-Methylphenol	ND	10	"	
4-Methylphenol	ND	10	"	
Naphthalene	ND	10	"	
2-Nitroaniline	ND	50	"	
3-Nitroaniline	ND	50	"	
4-Nitroaniline	ND	50	"	
Nitrobenzene	ND	10	"	
2-Nitrophenol	ND	10	"	
4-Nitrophenol	ND	50	"	
N-Nitrosodimethylamine	ND	20	"	
N-Nitrosodiphenylamine	ND	10	"	
N-Nitrosodi-n-propylamine	ND	10	"	
Pentachlorophenol	ND	50	"	
Phenanthrene	ND	10	"	
Phenol	ND	10	"	
Pyrene	ND	10	"	
Pyridine	ND	10	"	
1,2,4-Trichlorobenzene	ND	10	"	
2,4,5-Trichlorophenol	ND	10	"	
2,4,6-Trichlorophenol	ND	10	"	
Surrogate: 2-Fluorophenol	92.8		"	150 62 15-103
Surrogate: Phenol-d6	109		"	150 73 18-115
Surrogate: Nitrobenzene-d5	86.9		"	100 87 39-103
Surrogate: 2-Fluorobiphenyl	87.4		"	100 87 40-124

Sequoia Analytical - Petaluma

P307532

Reported:

08/15/03 12:43



Environmental Resources Management 2525 Natomas Park Drive, Suite 350 Sacramento CA, 95833 Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (3070657-BLK1)				Prepared: 07/3	80/03 Analyze	d: 08/07/03			
Surrogate: 2,4,6-Tribromophenol	137		"	150	91	11-142			
Surrogate: Terphenyl-d14	121		"	100	121	56-139			
Laboratory Control Sample (3070657-	-BS1)			Prepared: 07/3	30/03 Analyze	d: 08/07/03			
Acenaphthene	106	10	ug/l	100	106	58-120			
4-Chloro-3-methylphenol	114	20	"	100	114	51-116			
2-Chlorophenol	94.7	10	"	100	95	28-111			
1,4-Dichlorobenzene	86.8	10	"	100	87	29-108			
2,4-Dinitrotoluene	123	10	"	100	123	60-114			Q-LIM
4-Nitrophenol	95.5	50	"	100	96	25-148			
N-Nitrosodi-n-propylamine	102	10	"	100	102	29-119			
Pentachlorophenol	108	50	"	100	108	40-131			
Phenol	85.8	10	"	100	86	22-117			
Pyrene	120	10	"	100	120	52-127			
1,2,4-Trichlorobenzene	97.7	10	"	100	98	24-131			
Surrogate: 2-Fluorophenol	117		"	150	78	15-103			
Surrogate: Phenol-d6	129		"	150	86	18-115			
Surrogate: Nitrobenzene-d5	102		"	100	102	39-103			
Surrogate: 2-Fluorobiphenyl	101		"	100	101	40-124			
Surrogate: 2,4,6-Tribromophenol	170		"	150	113	11-142			
Surrogate: Terphenyl-d14	118		"	100	118	56-139			
Laboratory Control Sample Dup (307	0657-BSD1)			Prepared: 07/3	30/03 Analyze	d: 08/07/03			
Acenaphthene	101	10	ug/l	100	101	58-120	5	27	
4-Chloro-3-methylphenol	111	20	"	100	111	51-116	3	30	
2-Chlorophenol	90.0	10	"	100	90	28-111	5	39	
1,4-Dichlorobenzene	79.6	10	"	100	80	29-108	9	41	
2,4-Dinitrotoluene	120	10	"	100	120	60-114	2	22	Q-LIM
4-Nitrophenol	90.2	50	"	100	90	25-148	6	44	
N-Nitrosodi-n-propylamine	97.9	10	"	100	98	29-119	4	44	
Pentachlorophenol	106	50	"	100	106	40-131	2	33	
Phenol	81.6	10	"	100	82	22-117	5	33	
Pyrene	118	10	"	100	118	52-127	2	25	
1,2,4-Trichlorobenzene	90.7	10	"	100	91	24-131	7	48	
Surrogate: 2-Fluorophenol	111		"	150	74	15-103			
Surrogate: Phenol-d6	123		"	150	82	18-115			

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS Project Number: N/A Project Manager: Bruce Lewis

P307532 Reported: 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 3070657 - EPA 3520B LiqLiquid

Laboratory Control Sample Dup	(3070657-BSD1)		Prepared: 07/3	30/03 Analyzed	1: 08/07/03
Surrogate: Nitrobenzene-d5	99.0	ug/l	100	99	39-103
Surrogate: 2-Fluorobiphenyl	96.9	"	100	97	40-124
Surrogate: 2,4,6-Tribromophenol	169	"	150	113	11-142
Surrogate: Terphenyl-d14	115	"	100	115	56-139

Blank (3070671-BLK1)				Prepared: 07/31/03 Analyzed: 08/08/03
3-Methylphenol	ND	330	ug/kg	
Aniline	ND	330	"	
Acenaphthene	ND	330	"	
Acenaphthylene	ND	330	"	
Anthracene	ND	330	"	
Azobenzene	ND	330	"	
Benzidine	ND	1700	"	
Benzoic acid	ND	1700	"	
Benzo (a) anthracene	ND	330	"	
Benzo (b+k) fluoranthene (total)	ND	330	"	
Benzo (g,h,i) perylene	ND	330	"	
Benzo (a) pyrene	ND	330	"	
Benzyl alcohol	ND	660	"	
Bis(2-chloroethoxy)methane	ND	330	"	
Bis(2-chloroethyl)ether	ND	330	"	
Bis(2-chloroisopropyl)ether	ND	330	"	
Bis(2-ethylhexyl)phthalate	ND	330	"	
4-Bromophenyl phenyl ether	ND	330	"	
Butyl benzyl phthalate	ND	330	"	
4-Chloroaniline	ND	660	"	
4-Chloro-3-methylphenol	ND	660	"	
2-Chloronaphthalene	ND	330	"	
2-Chlorophenol	ND	330	"	
4-Chlorophenyl phenyl ether	ND	330	"	
Chrysene	ND	330	"	
Dibenz (a,h) anthracene	ND	330	"	
Dibenzofuran	ND	330	"	
Di-n-butyl phthalate	ND	330	"	
1,2-Dichlorobenzene	ND	330	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Batch 3070671	- EPA 3550A	Sonication
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Blank (3070671-BLK1)				Prepared: 07/31/03 Analyzed: 08/07/03
1,3-Dichlorobenzene	ND	330	ug/kg	
1,4-Dichlorobenzene	ND	330	"	
3,3´-Dichlorobenzidine	ND	660	"	
2,4-Dichlorophenol	ND	330	"	
Diethyl phthalate	ND	330	"	
2,4-Dimethylphenol	ND	330	"	
Dimethyl phthalate	ND	330	"	
4,6-Dinitro-2-methylphenol	ND	1700	"	
2,4-Dinitrophenol	ND	1700	"	
2,4-Dinitrotoluene	ND	330	"	
2,6-Dinitrotoluene	ND	330	"	
Di-n-octyl phthalate	ND	330	"	
Fluoranthene	ND	330	"	
Fluorene	ND	330	"	
Hexachlorobenzene	ND	330	"	
Hexachlorobutadiene	ND	330	"	
Hexachlorocyclopentadiene	ND	330	"	
Hexachloroethane	ND	330	"	
Indeno (1,2,3-cd) pyrene	ND	330	"	
Isophorone	ND	330	"	
2-Methylnaphthalene	ND	330	"	
2-Methylphenol	ND	330	"	
4-Methylphenol	ND	330	"	
Naphthalene	ND	330	"	
2-Nitroaniline	ND	1700	"	
3-Nitroaniline	ND	1700	"	
4-Nitroaniline	ND	1700	"	
Nitrobenzene	ND	330	"	
2-Nitrophenol	ND	330	"	
4-Nitrophenol	ND	1700	"	
N-Nitrosodimethylamine	ND	330	"	
N-Nitrosodiphenylamine	ND	330	"	
N-Nitrosodi-n-propylamine	ND	330	"	
Pentachlorophenol	ND	1700	"	
Phenanthrene	ND	330	"	
Phenol	ND	330	"	

Sequoia Analytical - Petaluma



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

ND 330 ug/kg 1,2,4-Trichlorobenzene ND 330 ug/kg 1,2,4-Trichlorophenol ND 330 ug/kg 2,4,6-Trichlorophenol ND 330 ug/kg 2,4,6-Trichlorophenol ND 330 ug/kg 2,4,6-Trichlorophenol ND 330 ug/kg 2,4,6-Trichlorophenol 2910 ug/kg 3330 68 11-120 11-	Blank (3070671-BLK1)				Prepared: 07/3	31/03 Analyzed	1: 08/07/03
1.2,4-Trichlorobenzene ND 330 " 2,4,5-Trichlorophenol ND 330 " 2,4,6-Trichlorophenol ND 330 " Surrogate: 2-Fluorophenol 2910 " 5000 58 11-120 Surrogate: Phenol-d6 3290 " 5000 66 16-130 Surrogate: Nitrobenzene-d5 2280 " 3330 68 16-126 Surrogate: 2-Fluorobiphenyl 2440 " 3330 73 28-134 Surrogate: 2-florophenol 3710 " 5000 74 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Accanaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 71 25-104 4-Nitrophenol 3010 1700 " 3330		ND	330	ug/kg	Troparod. o//c	1100 11111113 200	
2,4,5-Trichlorophenol ND 330 " 2,4,6-Trichlorophenol 2910 " 5000 58 11-120 Surrogate: 2-Fluorophenol 3290 " 5000 66 16-130 Surrogate: Nitrobenzene-d5 2280 " 3330 68 16-126 Surrogate: 2-Fluorobiphenyl 2440 " 3330 73 28-134 Surrogate: 2,4,6-Tribromophenol 3710 " 5000 74 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Accaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 71 25-104 4-Nitrophenol 3010 1700 " 3330 98 42-116	•	ND	330	"			
2,4,6-Trichlorophenol ND 330 " Surrogate: 2-Fluorophenol 2910 " 5000 58 11-120 Surrogate: Phenol-d6 3290 " 5000 66 16-130 Surrogate: Nitrobenzene-d5 2280 " 3330 68 16-126 Surrogate: 2-Fluorobiphenyl 2440 " 3330 73 28-134 Surrogate: 2,4,6-Tribromophenol 3710 " 5000 74 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Accnaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Din		ND	330	"			
Surrogate: 24 Phenol-d6 3290 " 5000 66 16-130 Surrogate: Nitrobenzene-d5 2280 " 3330 68 16-126 Surrogate: 2-Fluorobiphenyl 2440 " 3330 73 28-134 Surrogate: 2,4,6-Tribromophenol 3710 " 5000 74 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 90 34-114 Phenol 2370 330 " 3330 70 20-105	* '	ND	330	"			
Surrogate: Nitrobenzene-d5 2280 " 3330 68 16-126 Surrogate: 2-Fluorobiphenyl 2440 " 3330 73 28-134 Surrogate: 2,4,6-Tribromophenol 3710 " 5000 74 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 98 42-116 4-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 76 23-117 Phenol 2370 330 " 3330 71 20-105	Surrogate: 2-Fluorophenol	2910		"	5000	58	11-120
Surrogate: 2-Fluorobiphenyl 2440 " 3330 73 28-134 Surrogate: 2,4,6-Tribromophenol 3710 " 5000 74 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 <	Surrogate: Phenol-d6	3290		"	5000	66	16-130
Surrogate: 2,4,6-Tribromophenol 3710 " 5000 74 51-144 51-144 Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 90 34-114 Phenol 2370 330 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Surrogate: Nitrobenzene-d5	2280		"	3330	68	16-126
Surrogate: Terphenyl-d14 3320 " 3330 100 64-119 Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 " 3330 90 34-114 Phenol 2370 330 " 3330 " 3330 90 34-114 Phenol 2370 330 " 3330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Surrogate: 2-Fluorobiphenyl	2440		"	3330	73	28-134
Laboratory Control Sample (3070671-BS1) Prepared: 07/31/03 Analyzed: 08/07/03 Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 " 3330 98 42-116 2,4-Dinitrotoluene 3250 330 " 3330 90 31-109 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Surrogate: 2,4,6-Tribromophenol	3710		"	5000	74	51-144
Acenaphthene 2680 330 ug/kg 3330 80 34-114 4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 5000 67 11-120 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Surrogate: Terphenyl-d14	3320		"	3330	100	64-119
4-Chloro-3-methylphenol 2880 660 " 3330 86 24-118 2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 5000 67 11-120 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Laboratory Control Sample (3070671-BS1))			Prepared: 07/3	31/03 Analyzed	1: 08/07/03
2-Chlorophenol 2400 330 " 3330 72 29-101 1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 90 34-114 Phenol 2370 330 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Acenaphthene	2680	330	ug/kg	3330	80	34-114
1,4-Dichlorobenzene 2360 330 " 3330 71 25-104 2,4-Dinitrotoluene 3250 330 " 3330 98 42-116 4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	4-Chloro-3-methylphenol	2880	660	"	3330	86	24-118
1,4-Dictionobelizere 2500 330 3330 3330 98 42-116 2,4-Dinitrotoluene 3250 330 3330 98 42-116 4-Nitrophenol 3010 1700 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 3330 76 23-117 Pentachlorophenol 3010 1700 3330 90 34-114 Phenol 2370 330 3330 71 20-105 Pyrene 3430 330 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	2-Chlorophenol	2400	330	"	3330	72	29-101
4-Nitrophenol 3010 1700 " 3330 90 31-109 N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	1,4-Dichlorobenzene	2360	330	"	3330	71	25-104
N-Nitrosodi-n-propylamine 2540 330 " 3330 76 23-117 Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	2,4-Dinitrotoluene	3250	330	"	3330	98	42-116
Pentachlorophenol 3010 1700 " 3330 90 34-114 Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	4-Nitrophenol	3010	1700	"	3330	90	31-109
Phenol 2370 330 " 3330 71 20-105 Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	N-Nitrosodi-n-propylamine	2540	330	"	3330	76	23-117
Pyrene 3430 330 " 3330 103 30-124 1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Pentachlorophenol	3010	1700	"	3330	90	34-114
1,2,4-Trichlorobenzene 2640 330 " 3330 79 28-112 Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Phenol	2370	330	"	3330	71	20-105
Surrogate: 2-Fluorophenol 3330 " 5000 67 11-120	Pyrene	3430	330	"	3330	103	30-124
Surroguie. 2-Piuoropnienoi 5550 5000 07 11-120	1,2,4-Trichlorobenzene	2640	330	"	3330	79	28-112
Surrogate: Phenol. d6 3470 " 5000 60 16.130	Surrogate: 2-Fluorophenol	3330		"	5000	67	11-120
5470 5000 07 10-130	Surrogate: Phenol-d6	3470		"	5000	69	16-130
Surrogate: Nitrobenzene-d5 2690 " 3330 81 16-126	Surrogate: Nitrobenzene-d5	2690		"	3330	81	16-126
Surrogate: 2-Fluorobiphenyl 2660 " 3330 80 28-134	Surrogate: 2-Fluorobiphenyl	2660		"	3330	80	28-134
Surrogate: 2,4,6-Tribromophenol 4760 " 5000 95 51-144	Surrogate: 2,4,6-Tribromophenol	4760		"	5000	95	51-144

3330

3480

Surrogate: Terphenyl-d14

105

64-119



Project: Aerojet RI/FS
Project Number: N/A
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control Sequoia Analytical - Petaluma

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 3070671	- EPA 3550A	Sonication
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Matrix Spike (3070671-MS1)	Source: P30	07532-09		Prepared:	07/31/03	Analyze	d: 08/07/03			
Acenaphthene	2560	330	ug/kg	3330	ND	77	30-110			
4-Chloro-3-methylphenol	2770	660	"	3330	ND	83	27-109			
2-Chlorophenol	2330	330	"	3330	ND	70	24-98			
1,4-Dichlorobenzene	2310	330	"	3330	ND	69	24-89			
2,4-Dinitrotoluene	2950	330	"	3330	ND	89	35-110			
4-Nitrophenol	2750	1700	"	3330	ND	83	20-110			
N-Nitrosodi-n-propylamine	2490	330	"	3330	ND	75	23-109			
Pentachlorophenol	2540	1700	"	3330	ND	76	25-123			
Phenol	2310	330	"	3330	ND	69	19-100			
Pyrene	3110	330	"	3330	ND	93	12-131			
1,2,4-Trichlorobenzene	2500	330	"	3330	ND	75	17-110			
Surrogate: 2-Fluorophenol	3220		"	5000		64	11-120			
Surrogate: Phenol-d6	3370		"	5000		67	16-130			
Surrogate: Nitrobenzene-d5	2560		"	3330		77	16-126			
Surrogate: 2-Fluorobiphenyl	2510		"	3330		75	28-134			
Surrogate: 2,4,6-Tribromophenol	4210		"	5000		84	51-144			
Surrogate: Terphenyl-d14	3110		"	3330		93	64-119			
Matrix Spike Dup (3070671-MSD1)	Source: P30	7532-09		Prepared:	07/31/03	Analyze	d: 08/07/03			
Acenaphthene	2450	330	ug/kg	3330	ND	74	30-110	4	26	
4-Chloro-3-methylphenol	2570	660	"	3330	ND	77	27-109	7	21	
2-Chlorophenol	2150	330	"	3330	ND	65	24-98	8	27	
1,4-Dichlorobenzene	2150	330	"	3330	ND	65	24-89	7	25	
2,4-Dinitrotoluene	2870	330	"	3330	ND	86	35-110	3	15	
4-Nitrophenol	2530	1700	"	3330	ND	76	20-110	8	23	
N-Nitrosodi-n-propylamine	2320	330	"	3330	ND	70	23-109	7	31	
Pentachlorophenol	2350	1700	"	3330	ND	71	25-123	8	43	
Phenol	2230	330	"	3330	ND	67	19-100	4	21	
Pyrene	3020	330	"	3330	ND	91	12-131	3	26	
1,2,4-Trichlorobenzene	2320	330	"	3330	ND	70	17-110	7	30	
Surrogate: 2-Fluorophenol	2920		"	5000		58	11-120			
Surrogate: Phenol-d6	3160		"	5000		63	16-130			
Surrogate: Nitrobenzene-d5	2380		"	3330		71	16-126			
Surrogate: 2-Fluorobiphenyl	2380		"	3330		71	28-134			
Surrogate: 2,4,6-Tribromophenol	4020		"	5000		80	51-144			
Surrogate: Terphenyl-d14	3010		"	3330		90	64-119			

Sequoia Analytical - Petaluma





Environmental Resources Management
Project: Aerojet RI/FS
2525 Natomas Park Drive, Suite 350
Project Number: N/A
Sacramento CA, 95833
Project Manager: Bruce Lewis

P307532 **Reported:** 08/15/03 12:43

Notes and Definitions

J Estimated value.

Q-LIM The percent recovery was outside of the control limits. The samples results may still be useful for their intended purpose.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

NCORP (Chain of Cu	Custody Record		700
E.T.R. NO: WORK ORDER NO:		REQUESTED	SAMPLE ANALYSES	
SOURCE SITE NO: AUGER HOLE NO:		CS CODE) ICS EPA 82 1270 5010	1	
SAMPLERS (SIGNATURE) WINCELE	10	F SAMPLE CONTYPE (USC TYPE (USC TILE ORGANI 'S EPA 8 ALS EPA 6 CHLORATE	DRATORY	P207532
COC FIELD DEPTH DATE SAMPLE ID SAMPLE NO. (FT.) MM/DD/YY	TYPE OF CONTAINER	# OF SOIL VOLA BNA	o Commission of the Commission	REMARKS
6 6 07	1606			BATTC -0
1105 B 350-5826-11 11 07/25/03	20			-02
\$876-15E - 071	25/03 1631 12MBER		×	1 -03
1105 D 35D-3826-15 15 07/25	103 1649			10-04
1105 E 350 5826-20 70 07 181	03 940			REPORT TIGS IMPROSAMENT
1105 F 350-5R76-30 30 07 1281	703 1044	Coc		-6
1	103 1105	***		
D H 358-53 ZC-350 35	63 1/05	Sp		1
一切なる人でから		SW		
11115 K. Jures 21 - 2 - 2 - 27/30	10 10 10 10 10 10 10 10 10 10 10 10 10 1			1
L 350-5876-20E - 071	103 1554 Km			
-1-05 V				
1105 0			COOLER CUSTODY SE	ASWACT
				THE STATE OF THE S
1105 Q				23 Enumeració
TOTALS				Section of the sectio
RELINQUISHED BY: (SIGNATURE)	DATE/TIME R	RECEIVED BY: (SIGNATURE)		TOTAL NO. OF SAMPLE CONTAINERS:
PELINOUISHED BY: (SIGNATURE)	7/28/03 1623 R	RECEIVED BY: (SIGNATURE)	WE	METHOD OF SHIPMENT:
ATURE)	81725	HECEIVED BY LABORATORY BY: (SIGNATURE)	Segsit food LAB	LABORATORY DELIVERED TO:
CONNECTION OF COST OF SACRETINADO	112963 1-29	26	Sec 1230	
ORIGINAL - ENVIRONMENTAL OPERATIONS: WHITE 2ND COPY - I	Y: YELLOW	3RD COPY – SAMPLER: <i>PINK</i>	MeRuzy 72963	1436 A Z.67.35 v. 4

SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

				3			
CLIENT NAME:			DATE Received at Lab:	1/200		(Drinking water) for	ter) for
REC. BY (PRINT)			TIME Received at Lab:	62		regulatory purposes:	ırposes: YES/NO
WORKORDER: P301537			LOG IN DATE:	129/03		(Wastewater) for) for
						regulatory purposes:	rposes: YES/NO
CIRCLE THE APPROPRIATE RESPONSE	LAB				SAMPLE	DATE	
	SAMPLE #	#	CLIENT ID	DESCRIPTION	MATRIX	MATRIX SAMPLED	CONDITION (ETC.)
1. Custody Seal(s) Present / Absent			85)-SB26-6	N	S	772	
Intact / Broken*			and the second s	<i></i>	<		
2. Chain-of-Custody Present / Absent*			OI ITT	Ī	<		
			ত	5	a/		
Packing List: Present / Absent			S	and the second		750	
4. Airbill: Airbill/Sticker			8		awanano aka		
Present / Absent			33,		Africano de estado		
5. Airbill #:			8	doct the 20 th for manager	HERONY SERVICE SERVICE	Annygee at 10 states	
6. Sample Labels: Present / Absent			8	nder yeseket sistemi	**************************************	odru¥ecosoupsop.	
7. Sample IDs: Listed Not Listed			ħ	SA-Aukotoneparnatas	graphic distribution in page		
on-Chain-of-Custody			2.3 10.1	Ł	\leftarrow		
8. Sample Condition: /ntact / Broken* /			J 25F		>		
Leaking*							
9. Does information on							
custody reports, traffic							-
reports and sample		//		7			
labels agree? Yes/ No*							
10. Sample received within							
hold time: Yes / No*			X				·
11. Proper Preservatives				X			
used: Yes / No*			//)	
12. Temp Rec. at Lab:					_		
(Acceptance range for samples					Ž		
requiring thermal pres.:4+/-2°C) (Yes/ No*							

Sample Receipt Log
Revision 2.1 (11/10/00)
Replaces Revision 2 (11/06/00)
Enecave 17/12/00

Page _____ of ____

*If Circled, contact Project Manager and attach record of resolution.